

ULTRASONIC FLAW DETECTOR

PCE-UFD 50



- » **Single or dual probe measurement**
- » **AVG and DAC evaluation methods**
- » **Sound velocity 1000 ... 15000 m/s**
- » **Low weight**
- » **TFT colour display**
- » **USB interface and software**
- » **Memory for up to 100 data records**

The material thickness meter is used for non-destructive material testing. When testing with the material thickness meter, ultrasonic waves are sent through the test object using a probe. The ultrasound is reflected and scattered at interfaces of different materials with unequal density and wave impedance. After determining the transit time of the ultrasound through the test object, weld seams can be tested, wall thicknesses measured and component defects localised with the ultrasonic testing device.

With adjustable frequencies between 0.5 ... 20 MHz and sound velocities between 1000 ... 15000 m/s, measurements can be carried out in steel in the range between 0 ... 10000 mm. DAC and AVG evaluation methods, display and probe delay, attenuation and amplification functions, export and report generation functions as well as numerous other setting options make non-destructive material testing with the material thickness meter considerably easier. The tester has a video recording of the screen. The software can then be used to call up the data and create a report. The setting parameters can be changed using the rotary knob. The 5.7-inch colour display provides a clear presentation of the test results.

The ultrasonic tester is a powerful measuring device that has been designed for appropriate tests. Robust and ergonomic design enables use under industrial conditions.

Specification

Material thickness

Measuring range up to 0 ... 10000 mm

Resolution 1 mm

Pulse shift

Measuring range up to -20 ... +999,9 μ S

Resolution 0,1 μ S

Pulse shift

Measuring range up to 1000 ... 3400 μ S

Resolution 1 μ S

General technical data

Measuring functions Pulse echo, Send-Receive

Units mm

Frequency 0.5 ... 20 MHz

Display Typ TFT-Color Display

Display size 5,7 Inch

Storage medium Internal memory

Storage capacity 100 Parameter

Data interface Mini-USB, USB A

Sensor Ultrasound

Amplification range 130 dB

Adjustable speed of sound 1000 ... 15000 m/s

Menu language English (US), Chinese

Protection class (device) IP30

Power supply 12.6 V / 2 A

Connector type Earthing contact plug

Battery capacity 4500 mAh

Operating conditions -10 ... 50 °C , 20 ... 90 %RH

Storage conditions -10 ... 50 °C , 20 ... 90 %RH

Dimensions (L x W x H) 240 x 160 x 50 mm

Weight 1130 g